



## ecology and environment, inc.

108 SOUTH WASHINGTON, SUITE 302, SEATTLE, WASHINGTON 98104, TEL. 206-624-9537

International Specialists in the Environmental Sciences

### M E M O R A N D U M

DATE: March 22, 1985

TO: John Osborn, FIT RPO, USEPA, Region X

FROM: Paul Bulson, E&E, Seattle <sup>2B</sup>  
Jeff Whidden, E&E, Seattle

THRU: Dave Buecker, FIT RPM, E&E, Seattle <sup>DAB</sup>

SUBJ: Field Report for Mastercraft Metal Finishing  
Site Inspection

REF: TDD R10-8502-17

CC: William Ritthaler, E&E, Seattle  
Jim Pankanin, USEPA, Region X

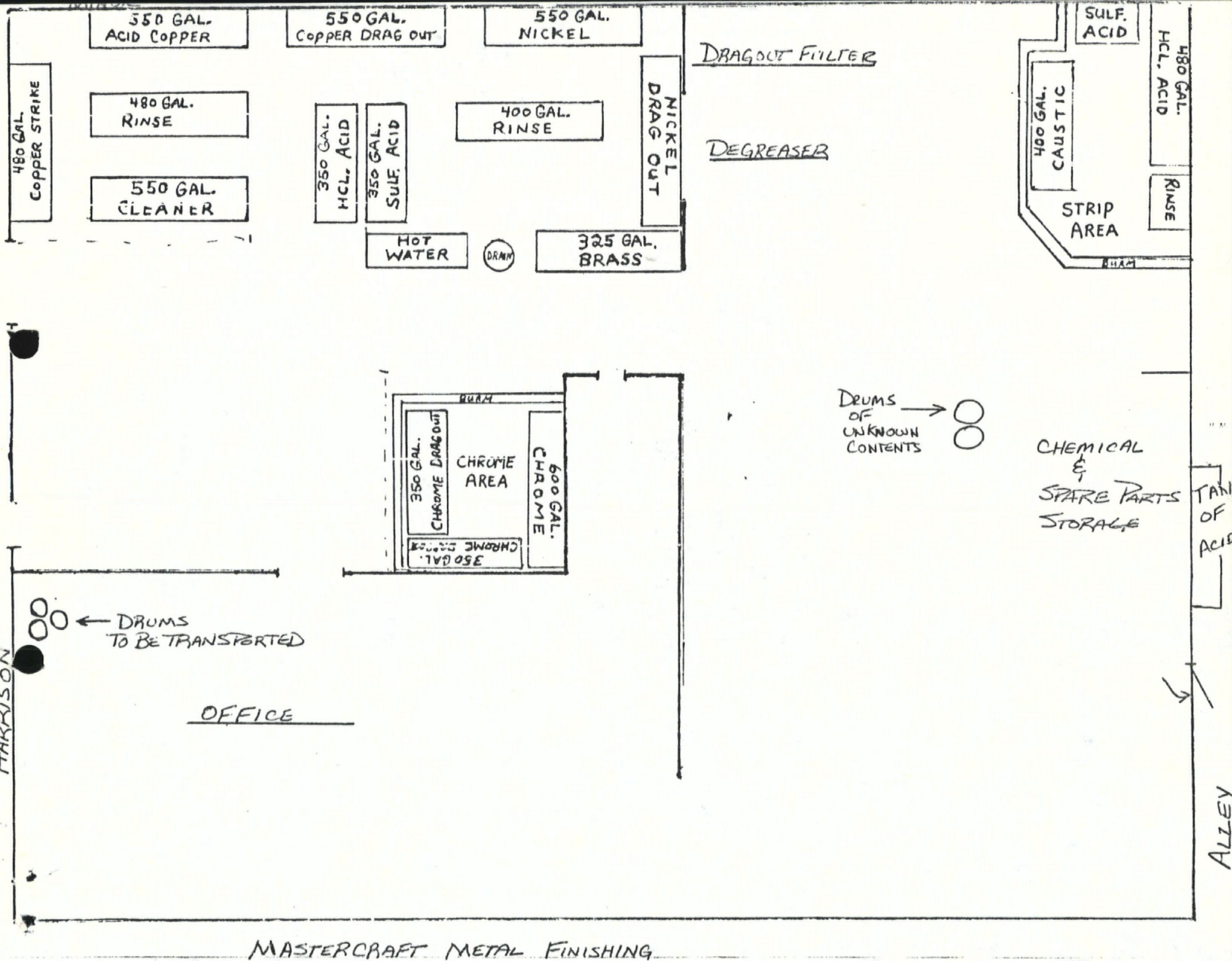
Under Technical Directive Document (TDD) R10-8502-17, Ecology and Environment, Inc. conducted a file review and an on-site inspection of Mastercraft Metal Finishing, Seattle, WA. The inspectors were Paul Bulson and Jeff Whidden (206)624-9537.

The inspection of the Mastercraft facility, at 1175 Harrison St., began March 6, at 0900 hours. The inspectors were met at the site by Mike Kartez, owner and operator of Mastercraft Metal Finishing, Seattle, WA., (206)622-6380. Mr. Kartez supplied the following information:

- o Mastercraft Finishing is a small electroplating company, concentrating on custom metal finishing. The facility occupies approximately 4,000 sq.ft. with all operations in an enclosed area.
- o Company processes employ the following material: chromic acid, sodium cyanide, sulfuric acid, caustic soda, nickel sulfate, nickel chloride, boric acid, nitric acid, muriatic acid, TCE, copper, nickel, brass and gold.
- o Mr. Kartez is attempting to reduce the dragout by recycling his waste streams. Unrecyclable waste is filtered through a filter process and the filter solids drummed. An area is not established for hazardous waste and subsequently several marked and unmarked drums are found throughout the facility; one drum next to the filter press containing filter solids, two drums of unknown contents in the chemical and spare parts storage area and three drums near the front entrance awaiting pickup by NW Tank, the present transporter.







Field Report for Mastercraft Metal Finishing  
Site Inspection  
Page 2

- o Most of the hazardous waste Mr. Kartez inherited from the previous owner Larry Beckley, when he purchased the company in January, 1984. Mr. Beckley sent waste to Western Processing and according to Mr. Kartez stored hazardous waste in 30 gallon plastic containers.
- o Outside the south entrance, in the alley, is an 2'x9' electroplating tank full of muriatic acid. The tank, covered with plastic, rests on a layer of gravel. Mr. Kartez wants to neutralize the acid and dispose of the waste sludge.
- o Mr. Kartez does not have a safety or emergency plan for his 16 employees.
- o Mastercraft lacks a bermed hazardous waste storage area. Also the area surrounding the sump is not bermed.
- o Mastercraft is a small generator, producing approximately 2000 lbs. of hazardous waste per year. The company is permitted by METRO to discharge 4100 gpd of wastewater.

In conclusion, even though the previous owner is suspected of poor hazardous waste handling practices, there is little evidence of on site waste disposal. There are several apparent RCRA violations which Mr. Kartez is attempting to correct, i.e., a designated hazardous waste storage area, removal of hazardous waste kept beyond the 90 day storage limit, placing berms where needed and disposing of the acid tank in the alley. It is recommended that Mastercraft undergo a RCRA inspection but further site investigation under CERCLA is not recommended.

PB:pc



TDD#

R10-8502-17

Mastercraft Metal Finishing

AA

E P A PROJECT

ECOLOGY AND ENVIRONMENT, INC.

CONTACT REPORT: REGION X-SEATTLE

TO:

PERSON CONTACTED:

Paul Bulson

PHONE:

CONTACTED BY:

Mike Kartez

SUBJECT:

Mastercraft Metal Finishing

DATE:

March 7, 1985

CC:

COMMENTS:

Mr. Kartez called me today to say he found the 2 drums (plastic, 30 gal) full of waste which he was unable to locate @ the inspection on the 6<sup>th</sup>. I told him to drum in 55 gal, approved, containers and disposal properly of plastic containers.



**ecology and environment, inc.**

108 SOUTH WASHINGTON, SUITE 302, SEATTLE, WASHINGTON 98104, TEL. 206-624-9537

International Specialists in the Environmental Sciences

February 19, 1985

Mr. Mike Kartez  
Mastercraft Metal Finishing  
1175 Harrison St.  
Seattle, WA 98112

Dear Mr. Kartez:

Per our telephone conversation of February 15, 1985, this letter is to confirm our visit to Mastercraft Metal Finishing located at 1175 Harrison St. on Wednesday March 6, 1985 at 9:00am.

Mastercraft Metal Finishing has been identified by the United States Environmental Protection Agency (EPA) Region X and Washington Department of Ecology (WDOE) from preliminary assessment screening as requiring additional information to accurately profile the nature and extent of past waste disposal activity at the site.

The EPA has been given authority under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 (Public Law 96-510; sec. 104) to gain access to sites where hazardous substances may have been generated, stored, treated, disposed, or transported. Ecology and Environment, Inc. (E&E) is an authorized contractor of the EPA (Contract No. 68-01-6692) (CERCLA; sec. 115) and is acting on their behalf as field investigators.

A site inspection is performed to determine the impact or potential impact on the environment of any hazardous substances which may exist in an uncontrolled manner at your facility. A site inspection is subsequently reflected in a report (EPA Form 2070-13), a copy of which may be requested by contacting the Region X EPA. The site inspection report provides a basis for determining if any further action is required at the site. Your firm may assert a claim of confidentiality for any information entitled to protection under 40 CFR Part 2 Subpart B by designating data you believe is entitled to such protection and submitting that data separately.

If you have any questions regarding our site visit, please contact me or William Ritthaler at (206)624-9537.

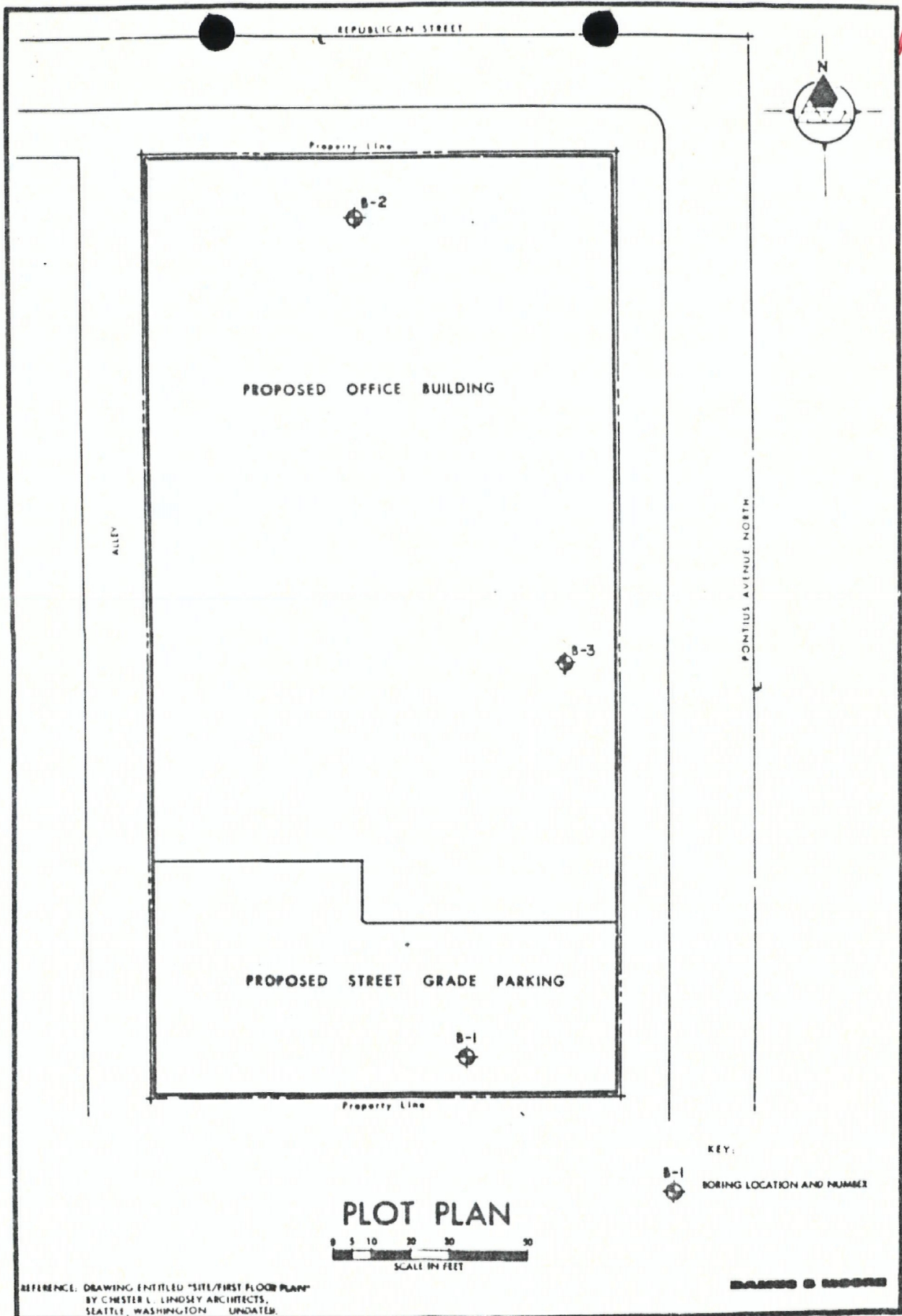
Sincerely yours,

Paul Bulson  
Project Manager

PB:pc

CC: J. Pankanin, USEPA, Seattle, WA

recycled paper



12085-001-05

**PLATE 1**



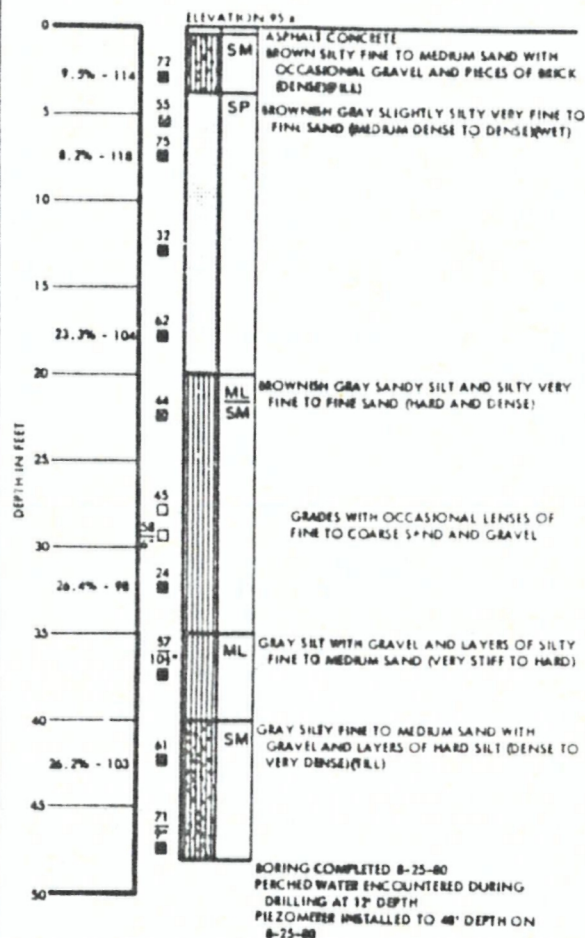


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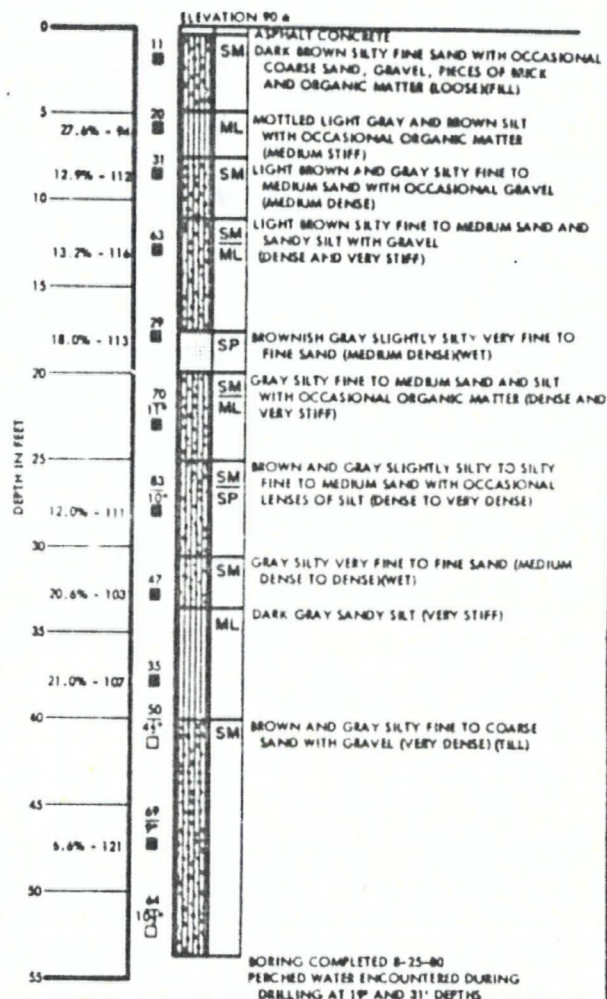
## BORING 1

## BORING 2



## KEY:

- MOISTURE CONTENT 9.5% - 114  
DRY DENSITY 114 PCF
- INDICATES DEPTH AT WHICH UNDISTURBED SAMPLE WAS EXTRACTED.
- INDICATES DEPTH AT WHICH DISTURBED SAMPLE WAS EXTRACTED.
- INDICATES SAMPLING ATTEMPT WITH NO RECOVERY.
- BLOWS REQUIRED TO DRIVE DAMES AND MOORE SAMPLER ONE FOOT WITH A HAMMER WEIGHT OF 250 LBS., AND A STROKE OF 30 INCHES.



## NOTES:

1. THE DISCUSSION IN THE TEXT OF THIS REPORT IS NECESSARY FOR A PROPER UNDERSTANDING OF THE NATURE OF THE SUBSURFACE MATERIALS.
2. ELEVATION ESTIMATED FROM TOPOGRAPHIC SITE SURVEY PREPARED BY DUFFY, LAWYER & KUMPF, INC., ENGINEERS, LAND SURVEYORS. DATED AUGUST 29, 1980.

## LOG OF BORINGS

DAMES &amp; MOORE

PLATE A-1

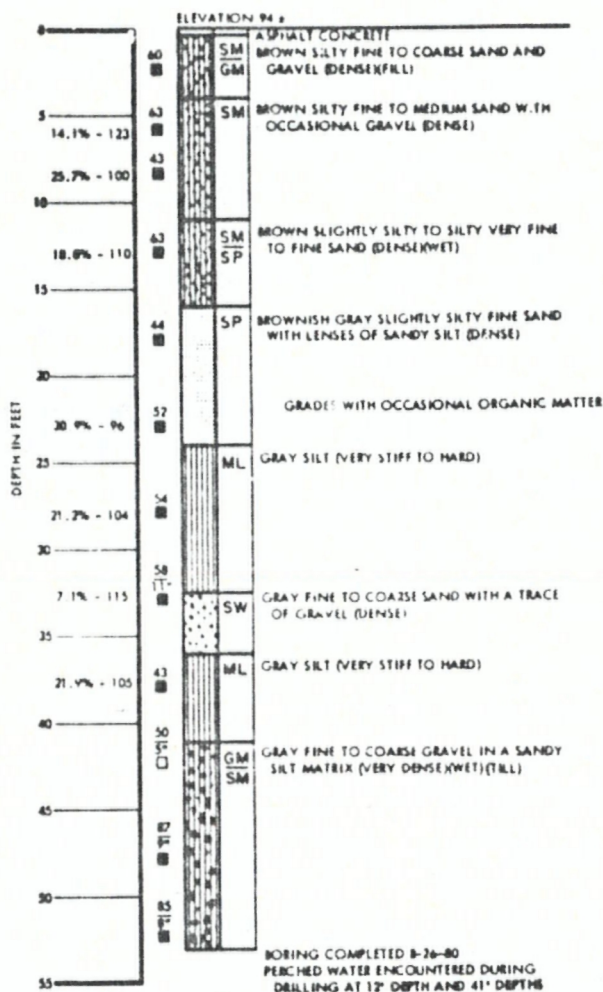
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LOCATION AND NUMBER

DAMES &amp; MOORE

PLATE 1

# BORING 3



## LOG OF BORING



**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT**  
Part 1 - Site Information and Assessment

**I. IDENTIFICATION**

01 State	02 Site Number
WA	D063346597

**II. SITE NAME AND LOCATION**

01 Site Name (legal, common, or descriptive name of site) <b>Mastercraft Metal Finish.</b>		02 Street, Route No., or Specific Location Identifier <b>1175 Harrison St.</b>			
03 City <b>Seattle</b>	04 State <b>WA</b>	05 Zip Code <b>98109</b>	06 County <b>King</b>	07 County Code <b>033</b>	08 Cong Dist <b>01</b>
09 Coordinates Latitude <b>473719.0</b> Longitude <b>1221955.0</b>		Section/Township/Range <b>SW 1/4, Sec. 29, T24N, R4E, WM</b>			
10 Directions to Site (starting from nearest public road)					

**III. RESPONSIBLE PARTIES**

01 Owner (if known) <b>Larry C. Beckley</b>		02 Street (business, mailing, residential) <b>1175 Harrison St.</b>	
03 City <b>Seattle</b>	04 State <b>WA</b>	05 Zip Code <b>98109</b>	06 Telephone Number <b>(206)6226380</b>
07 Operator (if known and different from owner) <b>Larry C. Beckley</b>		08 Street (business, mailing, residential) <b>1175 Harrison St.</b>	
09 City <b>Seattle</b>	10 State <b>WA</b>	11 Zip Code <b>98109</b>	12 Telephone Number <b>(206)6226380</b>
13 Type of Ownership (check one) <input checked="" type="checkbox"/> A. Private <input type="checkbox"/> B. Federal: <input type="checkbox"/> C. State <input type="checkbox"/> D. County <input type="checkbox"/> E. Municipal <input type="checkbox"/> F. Other: <input type="checkbox"/> G. Unknown			
14 Owner/Operator Notification on File (check all that apply) <input type="checkbox"/> A. RCRA 3001, Date Rec'd:    /    / <input type="checkbox"/> B. Uncontrolled Waste Site (CERCLA 103c), Date Rec'd:    /    / <input checked="" type="checkbox"/> C. None			

**IV. CHARACTERIZATION OF POTENTIAL HAZARD**

01 On Site Inspection <input checked="" type="checkbox"/> Yes, Date: <b>74 / -- / 84</b> <input type="checkbox"/> No By (check all that apply): <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA Contractor <input type="checkbox"/> C. State <input checked="" type="checkbox"/> D. Other Contractor <input type="checkbox"/> E. Local Health Official <input checked="" type="checkbox"/> F. Other: <b>Seattle Metro</b> Contractors Name(s): <b>JRB Associates</b>	
02 Site Status (check one) <input checked="" type="checkbox"/> A. Active <input type="checkbox"/> B. Inactive <input type="checkbox"/> C. Unknown	03 Years of Operation beginning year    ending year <b>70's</b> <b>Pres</b> <input type="checkbox"/> Unknown
04 Description of Substances Possibly Present, Known, or Alleged Electroplating operations at the facility result in three waste types: 1) copper plating bath filter solids; 2) bad plating solutions; 3) an effluent discharged to METRO. All forms of waste contain a wide variety of heavy metals including Cd, Cr, Cu, Ni, Pb, Zn and some acids.	
05 Description of Potential Hazard to Environment and/or Population Hazard unknown since EPA/WDOE files are not up to date on waste disposal practices. Plating bath solids and plating solutions had been sent to Western Processing. However, since Western Processing is no longer in operation an alternative disposal practice must be employed.	

**V. PRIORITY ASSESSMENT**

01 Priority for Inspection (check one; if high or medium is checked, complete Part 2 and Part 3) <input type="checkbox"/> A. High (inspection required promptly) <input type="checkbox"/> B. Medium (inspection required) <input checked="" type="checkbox"/> C. Low (inspect on time available basis) <input type="checkbox"/> D. None (no further action needed complete current disposition form)			
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**VI. INFORMATION AVAILABLE FROM**

01 Contact <b>Ned Therien</b>	02 Of (agency/organization) <b>WDOE</b>	03 Telephone Number <b>(206)4596352</b>
04 Person Responsible for Assessment <b>Donald Weston</b>	05 Agency <b>N/A</b>	06 Organization <b>JRB Associates</b>
	07 Telephone Number <b>(206)7477899</b>	08 Date <b>09 / 07 / 84</b>



D063346597

EPA/ERRIS Files  
Seattle Metro Files  
WDOE Files



**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT**  
Part 3 - Description of Hazardous Conditions & Incidents

**I. IDENTIFICATION**

01 State WA	02 Site Number D063346597
----------------	------------------------------

**II. HAZARDOUS CONDITIONS AND INCIDENTS**

01 (X) A. Groundwater Contamination      02 ( ) Observed (Date: )      (X) Potential      ( ) Alleged  
03 Population Potentially Affected: 0      04 Narrative Description  
There is no evidence of GW contamination. Aquifer is glacial drift. Soil in unsaturated zone is primarily sand and gravel. Depth to water table approx. 15-30ft. There is no use of GW for drinking water supplies within three miles.

01 (X) B. Surface Water Contamination      02 ( ) Observed (Date: )      (X) Potential      ( ) Alleged  
03 Population Potentially Affected: 0      04 Narrative Description  
No evidence of SW contamination exists. Lake Union is located 0.2 mi to the north of the site with a 4.7% gradient of the intervening terrain. Lake Union is used only for commercial/industrial/recreation purposes and not for drinking water supply.

01 (X) C. Contamination of Air      02 ( ) Observed (Date: )      ( ) Potential      ( ) Alleged  
03 Population Potentially Affected: 0      04 Narrative Description  
None known or suspected. Resident population within one mile is 33,000. Transient population is 25,000.

01 (X) D. Fire/Explosive Conditions      02 ( ) Observed (Date: )      ( ) Potential      ( ) Alleged  
03 Population Potentially Affected:      04 Narrative Description  
None known or suspected.

01 (X) E. Direct Contact      02 ( ) Observed (Date: )      (X) Potential      ( ) Alleged  
03 Population Potentially Affected: < 100      04 Narrative Description  
Site is immediately adjacent to a playground, however the playground is fenced so no threat is thought to exist. All hazardous material kept within building so the only hazard could potentially be to on-site workers.

01 (X) F. Contamination of Soil      02 ( ) Observed (Date: )      ( ) Potential      ( ) Alleged  
03 Area Potentially Affected (acres): 0      04 Narrative Description  
None known or suspected. Native soils are permeable sands and gravels.

01 (X) G. Drinking Water Contamination      02 ( ) Observed (Date: )      ( ) Potential      ( ) Alleged  
03 Population Potentially Affected: 0      04 Narrative Description  
No use of groundwater or SW for drinking supplies within three miles.

01 (X) H. Worker Exposure/Injury      02 ( ) Observed (Date: )      (X) Potential      ( ) Alleged  
03 Workers Potentially Affected: Unknown      04 Narrative Description  
Workers could potentially be exposed to hazardous material given the nature of business; however, no incidents of exposure/injury have been reported.

01 (X) I. Population Exposure/Injury      02 ( ) Observed (Date: )      (X) Potential      ( ) Alleged  
03 Population Potentially Affected: < 100      04 Narrative Description  
Only potential threat for population exposure/injury is believed to be direct contact of workers on-site.



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
Part 3 - Description of Hazardous Conditions & Incidents

I. IDENTIFICATION

01 State

02 Site Number

WA

D063346597

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ( ☒ ) J. Damage to Flora 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

04 Narrative Description

None known or suspected.

01 ( ☒ ) K. Damage to Fauna 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

04 Narrative Description (include name[s] of species)

None known or suspected.

01 ( ☒ ) L. Contamination of Food Chain 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

04 Narrative Description

None known or suspected.

01 ( ☒ ) M. Unstable Containment of Wastes (spills/runoff/standing liquids/leaking drums) 02 ( ) Observed (Date: ) ( ☒ ) Potential ( ) Alleged

03 Population Potentially Affected: < 100 04 Narrative Description

No reported instances.

01 ( ☒ ) N. Damage to Offsite Property 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

04 Narrative Description

None known or suspected.

01 ( ☒ ) O. Contamination of Sewers, Storm Drains, WWTPs 02 ( ☒ ) Observed (Date: 1974-83) ( ) Potential ( ) Alleged

04 Narrative Description

There is potential for acid or heavy metal discharge to sewer given the nature of the industry. There have been a few minor violations of METRO permit limits over the years though none have been considered serious.

01 ( ☒ ) P. Illegal/Unauthorized Dumping 02 ( ) Observed (Date: ) ( ) Potential ( ) Alleged

04 Narrative Description

None known or suspected.

05 Description of Any Other Known, Potential, or Alleged Hazards

None known.

III. TOTAL POPULATION POTENTIALLY AFFECTED: < 100

IV. COMMENTS

EPA/WDOE files are poorly documented and out-dated with regard to waste disposal practices. A site visit is recommended to insure that proper precautions are being taken.

V. SOURCES OF INFORMATION (cite specific references: state files, reports, etc.)

EPA/ERRIS Files; JRB Site Inspection; Geohydrologic Mono #5; WDOE Files; PSCOG, 1984-Population and Employment Forecasts; Metro Files; USGS Seattle South Quad (1973); U.S. Census Bureau Statistics



ATTACHMENT B

RCRA Section 3012 Preliminary Assessment Program  
Land Use and Demography

Prepared for JRB Associates by Shapiro and Associates

Site Name MASTERCRAFT METAL FINISHING \*SO County KING

Sources

1. NWI MAP
2. ROTTORFF, U.S.F.W.S.
3. SEATTLE STREET MAP - RAND McNALLY
4. THOMAS BROS MAP
5. USFWS, 1980
6. FIRM MAP, 1977
7. 1980 CENSUS DATA
8. PSCOG, 1984

1175 HARRISON ST  
SEA

Distance/direction to a 5-acre (minimum) coastal wetland, if 2 miles or less

SW 1.0 miles to PUGET SOUND (ELLIOTT BAY)

Defined as Estuary by NWI

Source 1

Distance/direction to a 5-acre (minimum) freshwater wetland, if 1 mile or less

NW 2 miles to U. of Washington Arboretum

Palustrine - Shrub, Forested; Emergent Wetlands

Source 1

N 0.3 miles to Lake Union - Defined as Lacustrine

Distance/direction to a critical habitat of an endangered species, if 1 mile or less

NONE

Source 2

Distance/direction to a National Wildlife Refuge, if 1 mile or less

NONE

Source 5

Resident and/or transient population within 1 mile of site

↓  
33,150 + 25,345 = 58,495

Source 7+3

Public or private facilities of particular concern (e.g., parks, schools) if within 1 mile or less

PARKS - SEATTLE CENTER, DENNY PARK, CASCADE PLG., TARRANT PARK, FREEWAY PARK, BROADWAY PLAYFIELD, VOLUNTEER PARK; SCHOOLS - SEATTLE CENTRAL COMMUNITY COLLEGE

QUEEN ANNE HIGH SCHOOL, NAVY AND MARINE TRAINING CENTER;

PUBLIC BUILDINGS; LIBRARY, 3 FIRE STATIONS, 2 HOSPITALS, ART MUSEUM, CONSUMERS MEMORIAL STADIUM

Source 3+4

Municipal sanitary sewer system and or storm sewers serving the facility?

METRO

Source \_\_\_\_\_

R

ATTACHMENT B  
RCRA Section 3012 Preliminary Assessment Program  
Surface and Groundwater Hydrology

Prepared for JRB Associates by Geo/Resource Consultants

Site Name MASTERCRAFT METAL FINISHING County KING

- Sources:
1. HYDROGEOLOGIC MONOGRAPH 5
  2. U.S.G.S. QUAD (SEATTLE SOUTH)
  - 3.
  - 4.
  - 5.
  - 6.
  - 7.
  8. Well logs used:

GROUNDWATER

Name/description of aquifer of concern

GLACIAL DRIFT - UNCONSOLIDATED SAND, GRAVEL, SILT & CLAY  
PARTIALLY CONSOLIDATED TILL

Source 1

Depth from the ground surface to the highest seasonal level of the saturated zone of the aquifer of concern

WELL 25/4 - 30R1

78'

Source 3

Soil type and permeability in unsaturated zone

Mostly sand & gravel to 272' (fairly permeable)  
CLAY & SAND LAYERS FAIRLY IMPERMEABLE

Source 3

Use(s) of aquifer of concern within a 3-mile radius of the hazardous substance.  
If available, indicate up-gradient or down-gradient

None

Source 4

Location (Distance, Up/Down Gradient) of nearest well drawing from aquifer of concern or occupied building not served by a public water supply

None

Source 4

Identified water-supply well(s) drawing from aquifer of concern within a 3-mile radius of the hazardous substance and population served by each well

Public:

NONE

Private:

Source 4



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT

Summary Memorandum

WA D063346597  
Site ID:  
County: King  
Priority Assessment: Low  
Backlog Red. Cat.:  
Date/Revised: 09/07/84

Name and Location:

Mastercraft Metal Finishing  
1175 Harrison St.  
Seattle, WA 98109

Contact: Larry Beckley  
Telephone: (206) 622-6380  
Site Status: (X) Active ( ) Inactive ( ) Unknown

Site Description/TSD Activities:

Site is an electroplating facility. Wastes generated include sludges and an effluent discharged to METRO, both of which are contaminated with a number of heavy metals.

Waste Types/Quantities/Characteristics:

Wastes are contaminated with heavy metals and could potentially be very acidic if neutralization is incomplete. Disposal practices unknown since state and federal files are out-dated. Sludges had been taken to Western Processing prior to its closure, but the current disposition of the material is unknown.

Physical/Social Environment:

Site is located in central Seattle in a commercial/residential area. Numerous public facilities and buildings in area including a playground adjacent to the site to the east. Resident population within 1 mile is 33,000. Transient population is 25,000.

Pollutant Mobilization/Pathways/Risk:

No evidence for contamination of ground or surface water, neither of which are used for drinking water supply. Greatest threat is exposure of on-site workers to hazardous material by direct contact, though there are no reported instances.

Priority Assessment/Backlog Reduction Category:

Low

Followup Recommendations:

A site visit is recommended in order to verify that proper waste disposal and handling procedures are employed. State and federal files should be updated to reflect current practices.